FIG.1

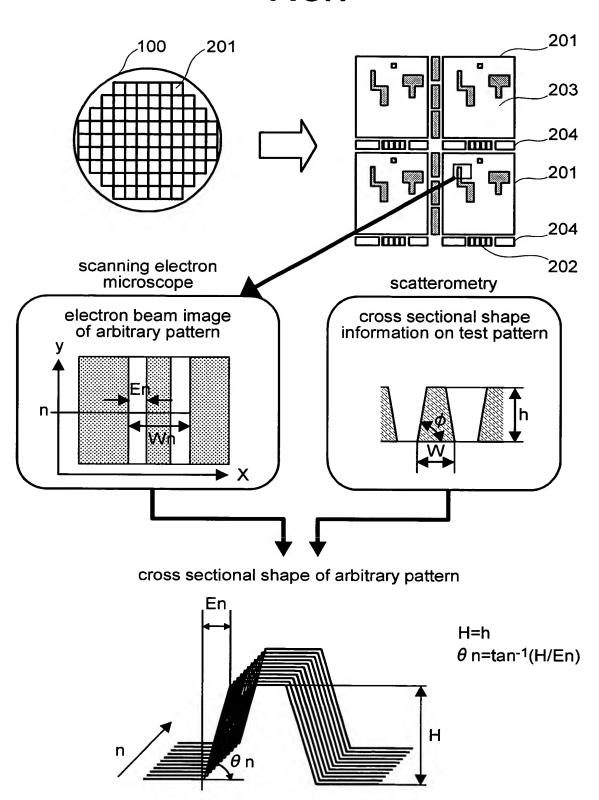


FIG.2

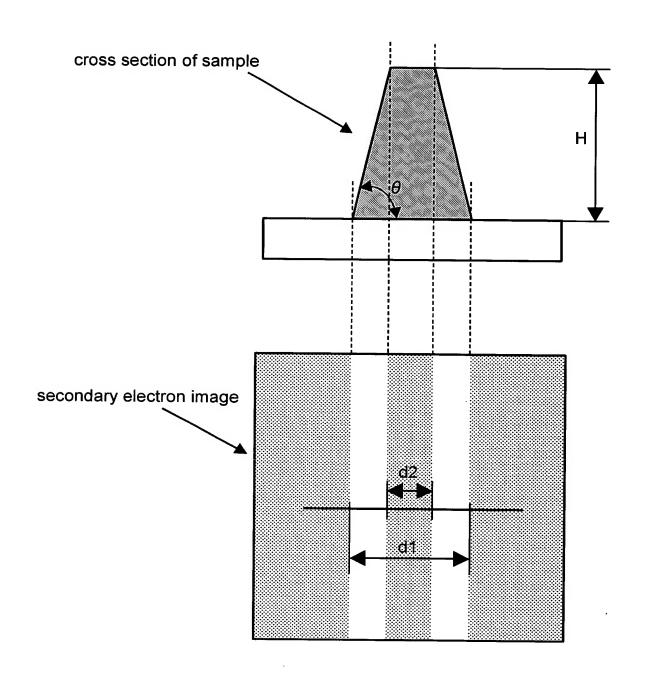


FIG.3

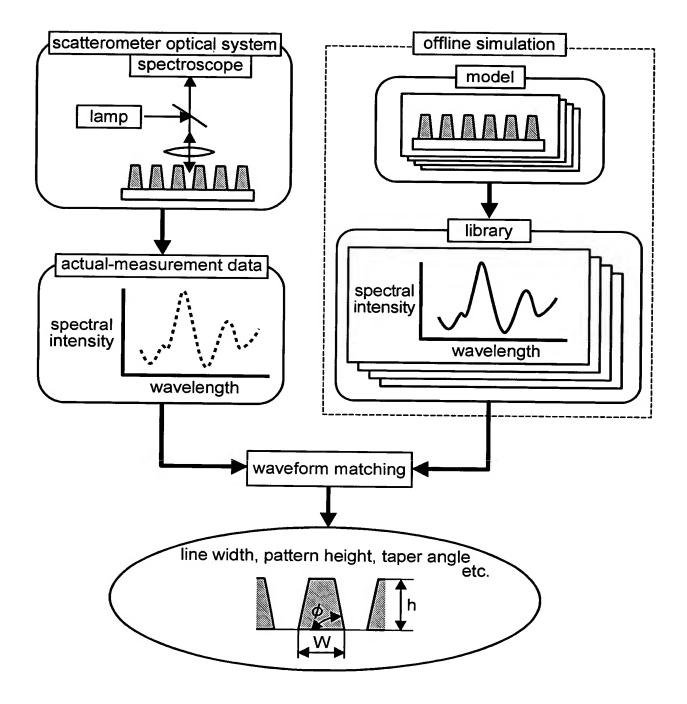
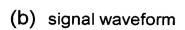
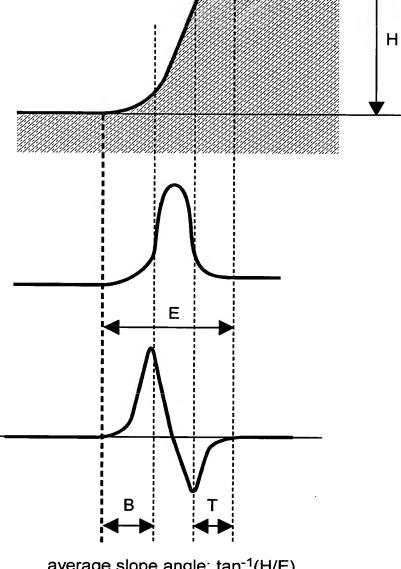


FIG.4





(C) first-order differentiation waveform

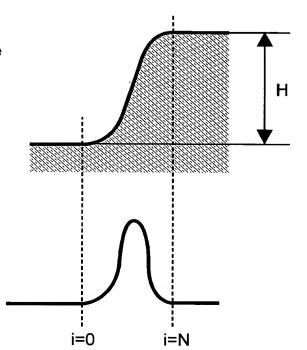


average slope angle: tan-1(H/E)

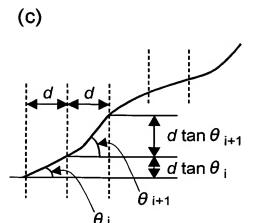
bottom roundness: B/H top roundness: T/H

FIG.5

(a) cross sectional shape



(b) waveform



SE
$$i = a \cdot \frac{1}{\cos \theta_i} + b \cdot \cdot \cdot \cdot (5.1)$$

$$H = \sum_{i=0}^{N} d \cdot \tan \theta_{i} \qquad \cdots (5. 2)$$

FIG.6

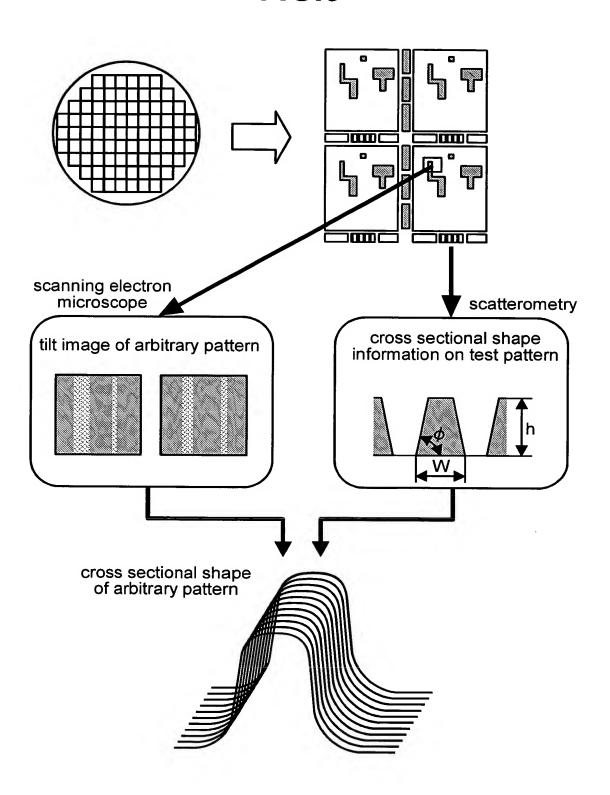


FIG.7

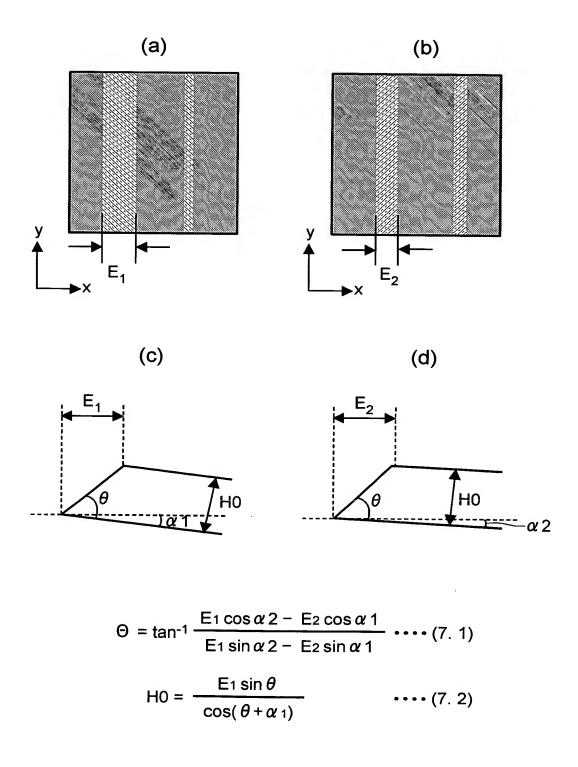


FIG.8

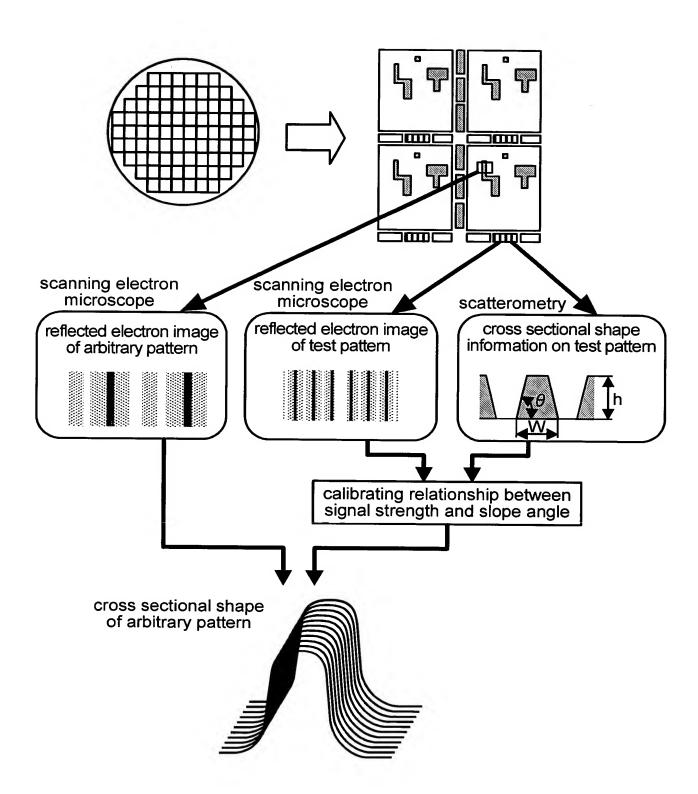


FIG.9

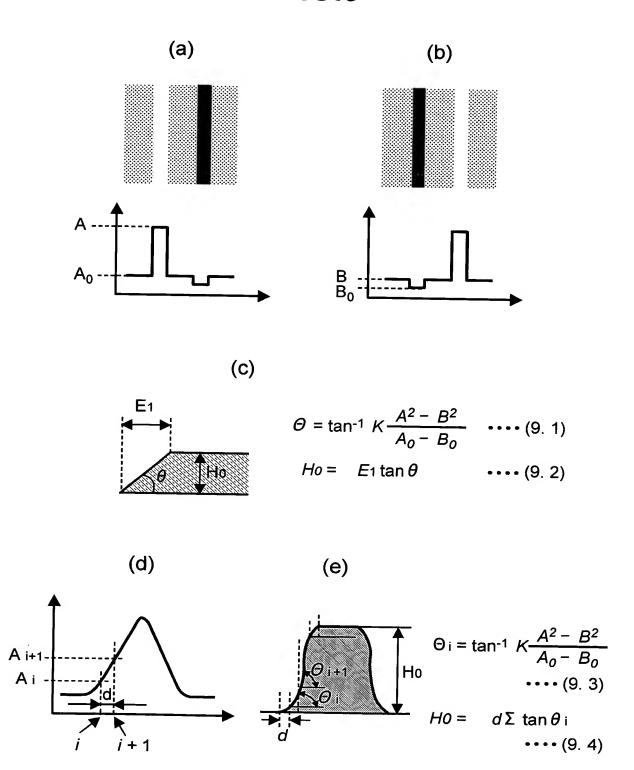


FIG.10

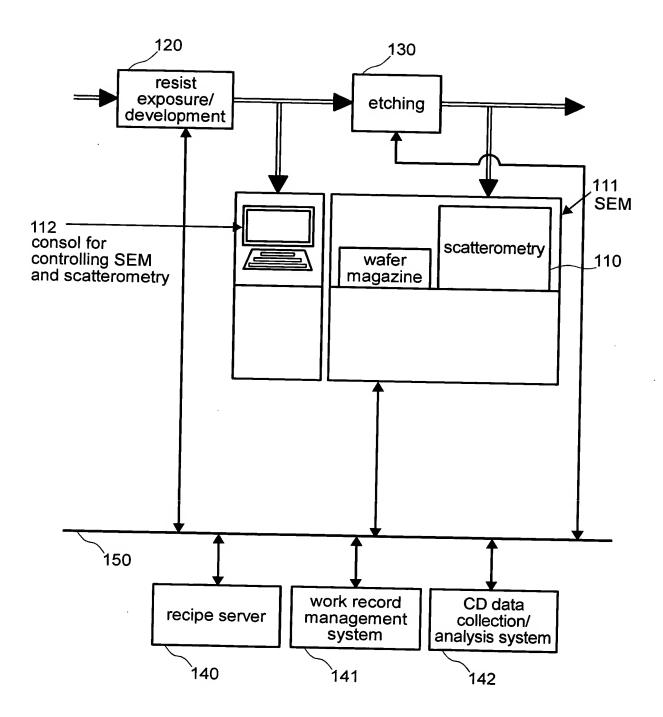


FIG.11

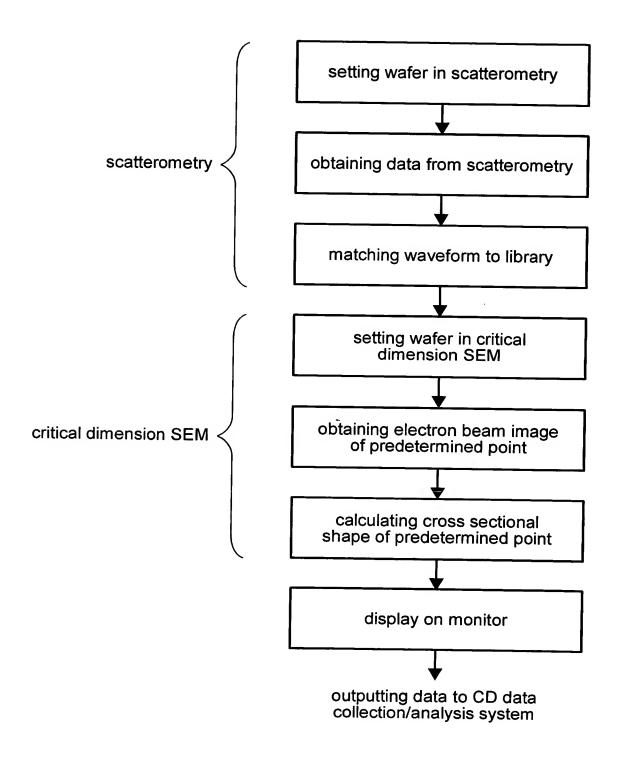


FIG. 12

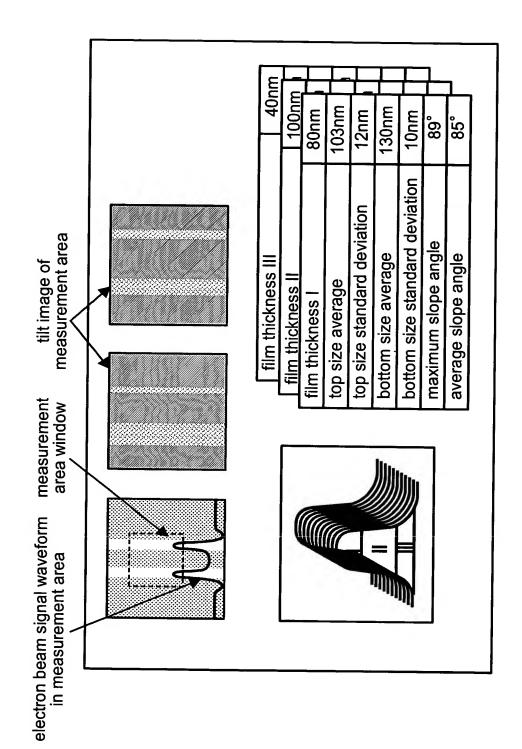


FIG.13

